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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/501,185	07/13/2004	Kenneth Dye	GJ-256J	7883

7590 06/24/2005

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EXAMINER	
RINEHART, KENNETH	

ART UNIT	PAPER NUMBER
3749	

DATE MAILED: 06/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/501,185	DYE, KENNETH	
	Examiner	Art Unit	
	Kenneth B. Rinehart	3749	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *13 July 2004*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-14* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-14* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *13 July 2004* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date *13/07/04*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7, 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Poindexter (2615834). Poindexter et al shows a pyrolysis chamber (1, fig. 1), an inlet at a first end of the pyrolysis chamber (2, 56, fig. 2), an outlet at a second end of the pyrolysis chamber (15, fig. 1), and feed means for feeding the material through the pyrolysis chamber, the feed means comprising a cranked member (51, fig. 1), at least one elongate member which extends along the pyrolysis chamber between the inlet and the outlet and which has a first end adjacent the inlet and a second end adjacent the outlet (42, fig. 1), a feed formation connected to the first end of the elongate member (46, fig. 3), and connector means which connects the second end of the elongate member to the cranked member (49, 52, fig. 1), and the feed means being such that rotation of the cranked member (51, fig. 1) causes the elongate member (42, fig. 1) to move backwards and forwards and the feed formation (46, fig. 1) to move the material from the inlet (56, fig. 1) towards the outlet (15, fig. 1), mounting means for hang mounting the first end of the elongate member in order to facilitate the movement backwards and forwards of the elongate member and the movement of the material by the feed formation (38, fig. 4), the mounting means is a hanging bar or a hanging spring (38, fig. 4), the feed formation is a rake head (46, fig. 1), there are at least two of the elongate members (42, fig. 2), and at least two of the feed

formations (42, fig. 1), there being one of the feed formations for each one of the elongate members (46, 42 ,fig. 1), there are three of the elongate members, and three of the feed formations (42, 46, fig. 2), including drive means for driving the cranked member (col. 4, lines 2-3, fig. 1), the pyrolysis chamber is constructed as a large long horizontally-extending chamber (fig. 2).

Claims 1, 4, 7-14 are rejected under 35 U.S.C. 102(b) as being anticipated by DE 374918. DE 374918 shows a pyrolysis chamber, an inlet at a first end of the pyrolysis chamber, an outlet at a second end of the pyrolysis chamber, and feed means for feeding the material through the pyrolysis chamber, the feed means comprising a cranked member, at least one elongate member which extends along the pyrolysis chamber between the inlet and the outlet and which has a first end adjacent the inlet and a second end adjacent the outlet, a feed formation connected to the first end of the elongate member, and connector means which connects the second end of the elongate member to the cranked member, and the feed means being such that rotation of the cranked member causes the elongate member to move backwards and forwards and the feed formation to move the material from the inlet towards the outlet, the feed formation is a rake head, driving means for driving the crank member, the drive means includes a motor, the drive means includes a chain and sprocket arrangement, the pyrolysis chamber is an outer shell which is made of a metal and which has a heat insulating lining, the metal is steel, a floor part of the pyrolysis chamber is formed by a floor of the outer shell and the heat insulating lining on the floor of the pyrolysis chamber is formed of fire bricks, the pyrolysis chamber is constructed as a large long horizontally-extending chamber (the whole document).

Claims 1, 4-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Beam (1523682). Beam shows a pyrolysis chamber, an inlet at a first end of the pyrolysis chamber (24, fig. 1), an outlet at a second end of the pyrolysis chamber (7, fig. 1), and feed means for feeding the material through the pyrolysis chamber (fig. 16), the feed means comprising a cranked member (page 5, line 116), at least one elongate member which extends along the pyrolysis chamber between the inlet and the outlet and which has a first end adjacent the inlet and a second end adjacent the outlet (30, 71, fig. 1), a feed formation connected to the first end of the elongate member (69, fig. 17), and connector means which connects the second end of the elongate member to the cranked member (A1, fig. 16), and the feed means being such that rotation of the cranked member causes the elongate member to move backwards and forwards and the feed formation to move the material from the inlet towards the outlet (fig. 1), the feed formation is a rake head (69, fig. 17), there are at least two of the elongate members, and at least two of the feed formations (77, 69, fig. 17), there being one of the feed formations for each one of the elongate members, there are three of the elongate members (fig. 1), and three of the feed formations (fig. 1), including drive means for driving the cranked member , the drive means includes a motor (page 5, lines 120-125).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to further show the state of the art with respect to crank apparatus in general: Erith (1431882), Hurlbut (1428636).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth B. Rinehart whose telephone number is 571-272-4881. The examiner can normally be reached on 7:20 -4:20.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira Lazarus can be reached on 571-272-4881. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

kbr

KENNETH RINEHART
PRIMARY EXAMINER